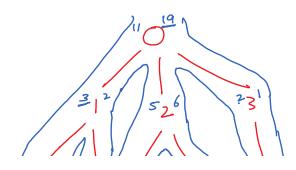
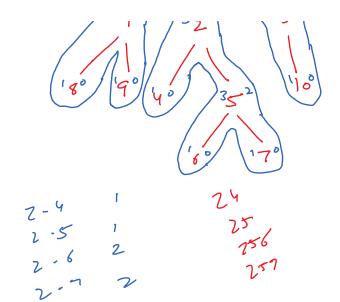
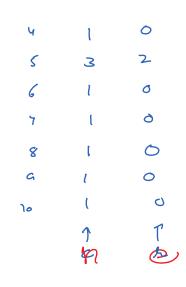
```
public TreeNode deleteNode(TreeNode root, int key) {
    if(key > root.val){
        root.right = deleteNode(root.right, key);
        return root;
    } else if(key < root.val){
        root.left = deleteNode(root.left, key);
        return root;
    } else {
        if(root.left != null && root.right != null){
            return root.left;
        } else if(root.right != null){
            return root.right;
        } else {
            return null;
        }
    }
}</pre>
```

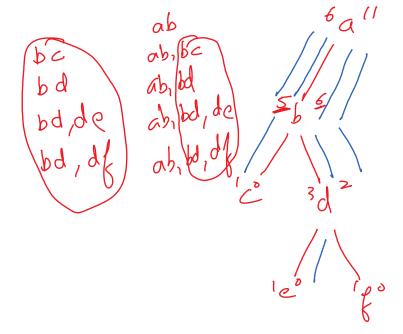
O(u)
3 4 5 6 7

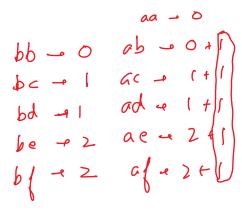
 $\begin{array}{c}
 1 + 1 + 2 + 2 + 2 + 2 + 2 + 2 + 3 + 3 \\
 1 - 3 + 1 - 2 + 3 - 3 + 7 - 4 \\
 3 + 2 + 9 + 8 \\
 1 + 2 + 2 + 3 + 3 + 3 + 4 + 5 + 5 \\
 9;35 - 9:48
 \end{array}$

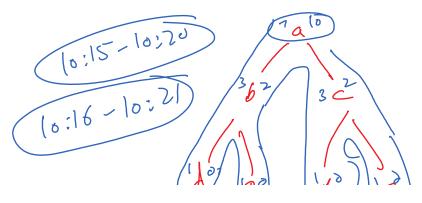


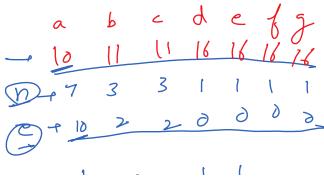






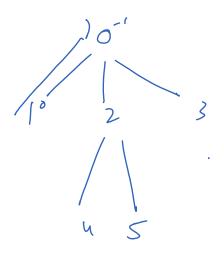






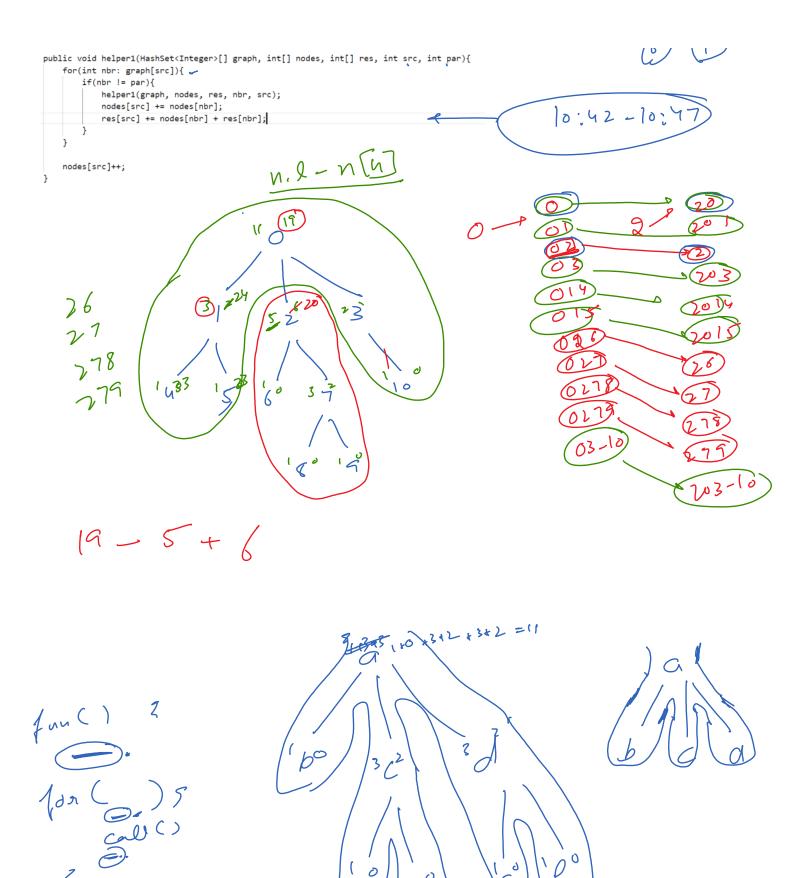
bd, be ab, abd, abe

ab ac 11 abd abe 22 acf akg 22



0 - [1/2/3]
1 - 0 |
2 - 0 | 4 | 5 |
3 - 2

```
TO THE [] SUMOIDES CONCESSENT COLUMN THE [][] CABCO / [
   HashSet<Integer>[] graph = new HashSet[n];
   for(int i = 0; i < graph.length; i++){
       graph[i] = new HashSet<>();
                                                               2 - 0,6,7
                                                                    -0/10
   for(int i = 0; i < edges.length; i++){</pre>
       int u = edges[i][0];
                                                                                             0
                                                                                       l
       int v = edges[i][1];
                                                                                             6
                                                                                       ٦
       graph[u].add(v);
       graph[v].add(u);
   int[] nodes = new int[n];
   int[] res = new int[n];
   helper1(graph, nodes, res, 0, -1);
public void helper1(HashSet<Integer>[] graph, int[] nodes, int[] res, int src, int par){
    for(int nbr: graph[src]){ ~
       if(nbr != par){
          helper1(graph. nodes. res. nbr. src):
```



)0 (

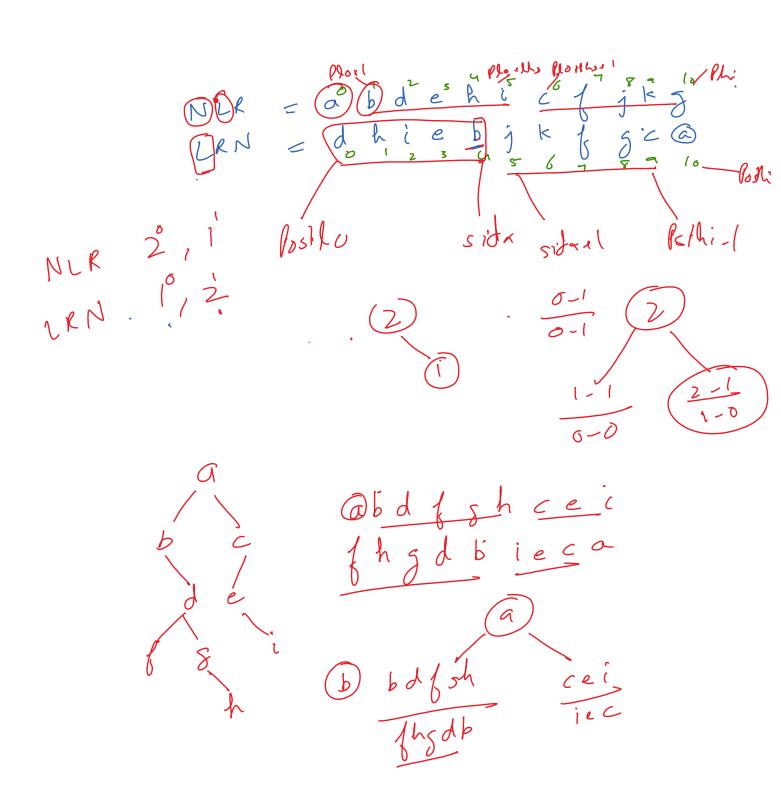
```
public void helper1(HashSet<Integer>[] graph, int[] nodes,
    for(int nbr: graph[src]){
        if(nbr != par){
            helper1(graph, nodes, res, nbr, src);
            nodes[src] += nodes[nbr];
            res[src] += nodes[nbr] + res[nbr];
        }
    }
    nodes[src]++;
}
```

```
3 x 2 3 10 x 5 10
```

```
public void helper2(ArrayList<Integer>[] graph, int[] nodes, int[] res, int src, int par){
    for(int nbr: graph[src]){
        if(nbr != par){
            res[nbr] = res[src] + (nodes.length - nodes[nbr]) - (nodes[nbr]);
        helper2(graph, nodes, res, nbr, src);
    }
}
```

```
public void helper1(ArrayList<Integer>[] graph, int[] nodes, int[] res, int src, int par){
    for(int nbr: graph[src]){
        if(nbr != par){
            helper1(graph, nodes, res, nbr, src);
            nodes[src] += nodes[nbr];
            res[src] += nodes[nbr] + res[nbr];
    }
}
nodes[src]++;
```

Plot 12 5 a Ploths follow 1



a (W) LR (I) RN

